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TEXAS INSTRUMENTS STILL CARES

by Paul Scheidemantle

It looks like TI still cares, four and a half years after they orphaned the TI 99/4A. the toll-free number 1-800-TI-CARES is still working, and it is still possible to get replacements for out-of-warranty, non-functioning equipment. The cost to replace your console is $30.50. To replace a 32K card is $44.00 and the 10 inch moniter is $100. (of course you have to cover the shipping charges both ways.)
Before sending anything in, I suggest you call and see if they have the replacement and the current price. The address for the non-working item is: TEXAS INSTRUMENTS INC. ATTN: REPAIR CENTER 2305 N. UNIVERSITY AVENUE, LUBBOCK, TX. 79408.

Parts are still available through TI. The TI parts dept. has a very wide variety of parts available for the 99/4A owners. Most of the GROM chips for any TI labeled cartridge may be ordered as well as almost every part in the console or PEB equipment. One item they have available is the GROM port adapter for the console: the part number is 104963-1, and the cost is $5.84.

There are a few items which are becoming scare, such as the TP (thermal printer) parts. The TI-Writer GROM is sold out. A TI part number helps, but is not required. They will accept orde4r by part description. The moniters were made by Panasonic and as such could be repaired by a shop that would have a similiar diagram and spare parts. You have to call a non-toll free number for that: 1-806-741-2265 or 1-806-741-2268.

(reprinted from the Call Sav newsletter)

THE BLOODBANK

Walter H. Blood
2032 North 32nd Street
Kansas City, Kansas 66104

SEPTEMBER 1988

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Three more Peanuts posters.

```
100 REM PEANUTS #6
110 REM DANCING
120 REM BY WALTER H. BLOOD
130 OPEN #1:"PIO"
140 FOR L=1 TO 50
150 P$=""
160 READ N
170 FOR I=1 TO N
180 READ A,B
190 FOR J=1 TO A
200 P$=P$&CHR$(32)
210 NEXT J
220 FOR J=1 TO B
230 P$=P$&CHR$(88)
240 NEXT J
250 NEXT I
260 PRINT #1:TAB(3);P$
270 NEXT L
280 CLOSE #1
290 STOP
300 DATA 3,12,1,21,7,21,7,4,11,1,6,3,
9,13,26,2,4,10,1,6,1,9,17,13,10
310 DATA 5,9,1,6,1,11,18,10,1,10,1,3,
10,1,6,1,12,17,2,41,7,10,7,2,45,3,6,1
3
320 DATA 2,47,1,4,17,2,45,3,2,21,3,29
,3,12,2,2,25,4,26,3,3,8,2,4,2,27
330 DATA 6,25,1,4,3,7,2,3,1,2,1,7,19,
4,24,1,3,7,13,2,12,11,3,24,1,5,3,16,1
,2,24,2,23,1
340 DATA 2,26,3,19,2,2,29,8,4,8,2,37,
4,1,4,1,44,2,1,42,5,2,36,2,3,7,1,35,7
,2,34,2,2,2
350 DATA 2,33,2,1,2,2,32,2,1,2,3,32,1
,1,2,10,2,3,31,1,2,1,11,2,3,31,1,1,1,
11,2
360 DATA 4,27,1,1,2,1,2,11,1,3,26,4,2
,1,12,1,3,24,3,4,2,11,1,4,23,2,6,1,3,
6,3,1
370 DATA 4,24,8,2,1,5,3,1,2,4,31,1,1,
1,8,2,1,2,4,23,9,1,1,9,2,1,2,4,23,2,6
,4,9,1,2,1
380 DATA 4,24,4,5,2,10,1,1,1,3,26,5,3
,2,9,1,2,27,3,6,2,3,30,2,5,2,9,1
390 DATA 4,32,2,4,2,9,1,2,1,4,34,3,10
,1,1,1,3,1,6,12,2,4,2,16,4,7,1,1,1,4,
1
400 DATA 7,3,2,6,1,5,1,12,14,3,1,1,1,
4,1,6,2,1,7,1,5,1,10,3,12,7,5,1
410 DATA 7,1,1,7,1,5,1,9,2,2,2,13,4,5
,1,7,0,1,8,1,5,1,8,2,2,2,3,11,8,1
420 DATA 5,0,1,8,1,6,2,7,8,18,1,3,1,2
,7,1,38,2,3,1,2,7,1,38,2
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Three more Peanuts posters.

```
100 REM PEANUTS #11
110 REM RED BARON (small)
120 REM BY WALTER H. BLOOD
130 OPEN #1:"PIO"
140 M$=CHR$(42)
150 FOR L=1 TO 47
160 GOSUB 380
170 NEXT L
180 M$=CHR$(79)
190 FOR L=48 TO 66
200 GOSUB 380
210 NEXT L
220 FOR L=67 TO 75
230 P$=""
240 READ N
250 FOR I=1 TO N
260 READ A,B,C
270 FOR J=1 TO A
280 P$=P$&CHR$(32)
290 NEXT J
300 FOR J=1 TO B
310 P$=P$&CHR$(C)
320 NEXT J
330 NEXT I
340 PRINT #1:TAB(5);P$
350 NEXT L
360 CLOSE #1
370 STOP
380 P$=""
390 READ N
400 FOR I=1 TO N
410 READ A,B
420 FOR J=1 TO A
430 P$=P$&CHR$(32)
440 NEXT J
450 FOR J=1 TO B
460 P$=P$&M$
470 NEXT J
480 NEXT I
490 IF (L>33)*(L<37)THEN P$=SEG$(P$,1
,5)&"------"&SEG$(P$,12,LEN(P$)-11)
500 IF L=40 THEN P$=P$&"  ---"
510 IF L=41 THEN P$=P$&"   ---"
520 PRINT #1:TAB(5);P$
530 RETURN
540 DATA 14,0,4,2,1,2,1,2,4,2,4,2,4,5
,1,3,1,2,4,2,1,2,1,5,4,2,4,2,3
550 DATA 18,0,1,5,1,2,1,2,1,2,1,2,1,5
,1,9,1,1,1,3,1,2,1,2,1,2,1,5,1,2,1,2,
1,5,1,2,1
560 DATA 15,0,1,5,1,2,1,2,4,2,4,2,3,8
```
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```
,1,4,1,2,1,2,1,2,1,5,4,2,3,3,1,2,1
570 DATA 17,0,1,5,1,2,1,2,1,1,1,6,1,2
,1,10,1,4,1,2,1,2,1,2,1,5,1,1,1,3,1,5
,1,2,1
580 DATA 13,0,4,2,4,2,1,2,1,2,4,2,4,7
,1,4,4,2,4,5,1,2,1,2,4,2,3,0,0,0
590 DATA 9,0,4,2,4,2,4,2,4,2,1,2,1,5,
1,1,1,1,1
600 DATA 13,0,1,2,1,2,1,2,1,2,1,2,1,2
,1,2,1,2,2,1,1,5,1,1,1,1,1
610 DATA 10,0,3,3,4,2,4,2,1,2,1,2,1,1
,2,5,1,1,1,1,1
620 DATA 10,0,1,2,1,2,1,2,1,2,1,1,1,3
,1,2,1,2,1,2,1
630 DATA 11,0,4,2,1,2,1,2,1,2,1,2,4,2
,1,2,1,5,1,1,1,1,1,0,0,0,0
640 DATA 1,35,5,1,33,9,1,31,13,1,30,1
9,2,29,15,6,1,2,29,15,8,1
650 DATA 5,27,4,11,1,8,2,1,1,1,1,4,26
,5,6,7,6,1,7,1,3,26,16,2,5,11,1,2,26,
10,22,1
660 DATA 2,26,12,23,1,2,26,11,24,1,2,
27,11,23,3,5,28,10,4,1,1,1,2,1,13,4
670 DATA 4,30,8,3,1,8,1,9,4,4,32,6,2,
1,10,1,7,1
680 DATA 11,5,26,1,5,1,2,1,1,1,1,2,1,
1,1,1,1,2,1,1,1,1,1,2,5,33,9,1,3,5,31
,10,1,1,3
690 DATA 3,27,1,8,11,3,1,3,25,1,10,11
,2,1,3,23,1,10,4,9,2,2,21,1,11,1,2,20
,1,11,1
700 DATA 4,16,1,2,1,12,1,5,1,4,15,1,2
,1,13,1,5,1,3,15,1,2,1,13,1
710 DATA 7,15,1,2,1,6,1,1,1,1,1,1,1,6
,1,4,16,1,1,1,5,1,12,1,2,17,3,18,1
720 DATA 1,16,42,1,15,44,1,15,45,1,14
,47,1,14,47,1,13,49,1,13,49,1,12,51,1
,12,51
730 DATA 1,11,53,1,10,54,1,10,55,1,9,
56,1,8,58,1,7,59,1,6,61,1,6,61,1,5,63
,1,5,63
740 DATA 1,16,41,88,1,16,41,88,1,16,4
1,88,1,16,41,88,1,16,41,88,1,16,41,88
750 DATA 2,3,12,42,1,41,88,8,4,1,42,1
,1,83,0,1,78,0,2,79,0,1,80,0,1,89,1,1
,42,2,41,88
760 DATA 2,5,8,42,3,41,8

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100 REM PEANUTS #8
110 REM FOOTBALL
120 REM BY WALTER H. BLOOD
130 OPEN #1:"PIO",VARIABLE 132
140 PRINT #1:CHR$(15);
150 PRINT #1:CHR$(27);CHR$(49);
160 FOR L=1 TO 59
170 READ N
180 P$=""
190 FOR I=1 TO N
200 READ A,B
210 FOR J=1 TO A
220 P$=P$&CHR$(32)
230 NEXT J
240 FOR J=1 TO B
250 P$=P$&CHR$(42)
260 NEXT J
270 NEXT I
280 PRINT #1:P$
290 NEXT L
300 PRINT #1:CHR$(27);"@"
310 CLOSE #1
320 STOP
330 DATA 1,84,11,1,81,19,5,78,4,4,2,3
,2,2,2,2,4,3,75,3,9,14,1,3,4,22,4,47,
3,23,2,3,3
340 DATA 4,21,2,47,3,28,4,1,3,4,20,2,
48,3,30,2,3,2,6,13,4,3,1,17,12,20,2,3
3,3,1,2
350 DATA 6,10,12,14,4,7,6,17,2,3,3,32
,2,8,8,5,8,4,1,2,5,4,15,3,15,3,3,5,30
,2
360 DATA 7,6,3,14,12,20,3,1,3,9,3,6,4
,27,3,6,5,3,19,2,29,7,9,2,9,4,25,2
370 DATA 7,4,2,20,2,28,3,2,3,9,2,11,5
,21,3,6,3,2,21,2,29,7,9,3,14,5,18,2
380 DATA 6,3,1,23,2,28,7,10,3,17,5,14
,2,5,2,1,53,6,13,3,19,6,10,2
390 DATA 6,1,3,20,6,24,3,21,4,26,3,2,
2,5,1,3,18,13,16,5,24,4,28,2
400 DATA 5,1,5,16,2,8,21,29,4,24,3,5,
1,7,14,2,16,9,36,6,16,4,4,1,8,13,2,64
,7,7,6
410 DATA 3,0,11,11,3,69,10,2,0,12,11,
2,2,0,14,9,3,2,0,15,10,3,3,0,15,11,5,
8,6
420 DATA 3,1,15,13,12,2,2,2,1,16,24,3
,2,2,16,16,9,3,3,16,15,2,2,2,4,4,21,1
0,6,4,9,18,6
430 DATA 4,5,24,5,24,13,2,4,3,5,6,15,
6,10,19,5,10,2,5,3
440 DATA 7,7,15,7,5,8,7,11,3,8,2,3,2,
2,2,6,9,13,9,1,5,16,9,3,6,2,8,2
450 DATA 7,11,11,7,3,1,5,14,3,9,2,6,2
,5,5,6,14,8,6,3,23,2,9,2,6,2,8,2
460 DATA 6,16,6,5,2,25,2,9,3,7,2,6,2,
9,18,3,6,2,8,8,3,1,2,1,3,2,9,2,8,2,5,
3
470 DATA 9,27,10,1,2,4,2,2,1,2,1,2,3,
9,2,8,2,6,2,4,09,1,5,11,10,12,6,2
480 DATA 4,39,2,25,5,4,3,6,2,2,39,2,4
3,2,2,40,1,43,2,2,40,2,42,2,3,41,2,26
,8,7,2
490 DATA 3,42,2,24,13,2,3,3,43,2,21,3
,9,6,2,44,2,18,3,3,45,4,6,2,7,2,2,47,
10,6,2
500 DATA 2,53,3,6,2,2,43,11,4,9,2,41,
3,22,2,2,41,2,24,2,3,42,2,15,3,6,1
510 DATA 4,43,3,7,2,6,3,2,2,3,45,4,5,
2,7,3,1,48,16
```

ANALYSIS OF RESORTING A SORTED ARRAY OF 50 RECORDS AFTER THE FIRST RECORD WAS CHANGED TO ZZZ OR THE LAST RECORD WAS CHANGED TO AAA OR THE CENTER RECORDS WERE CHANGED TO ZZZ AND AAA.

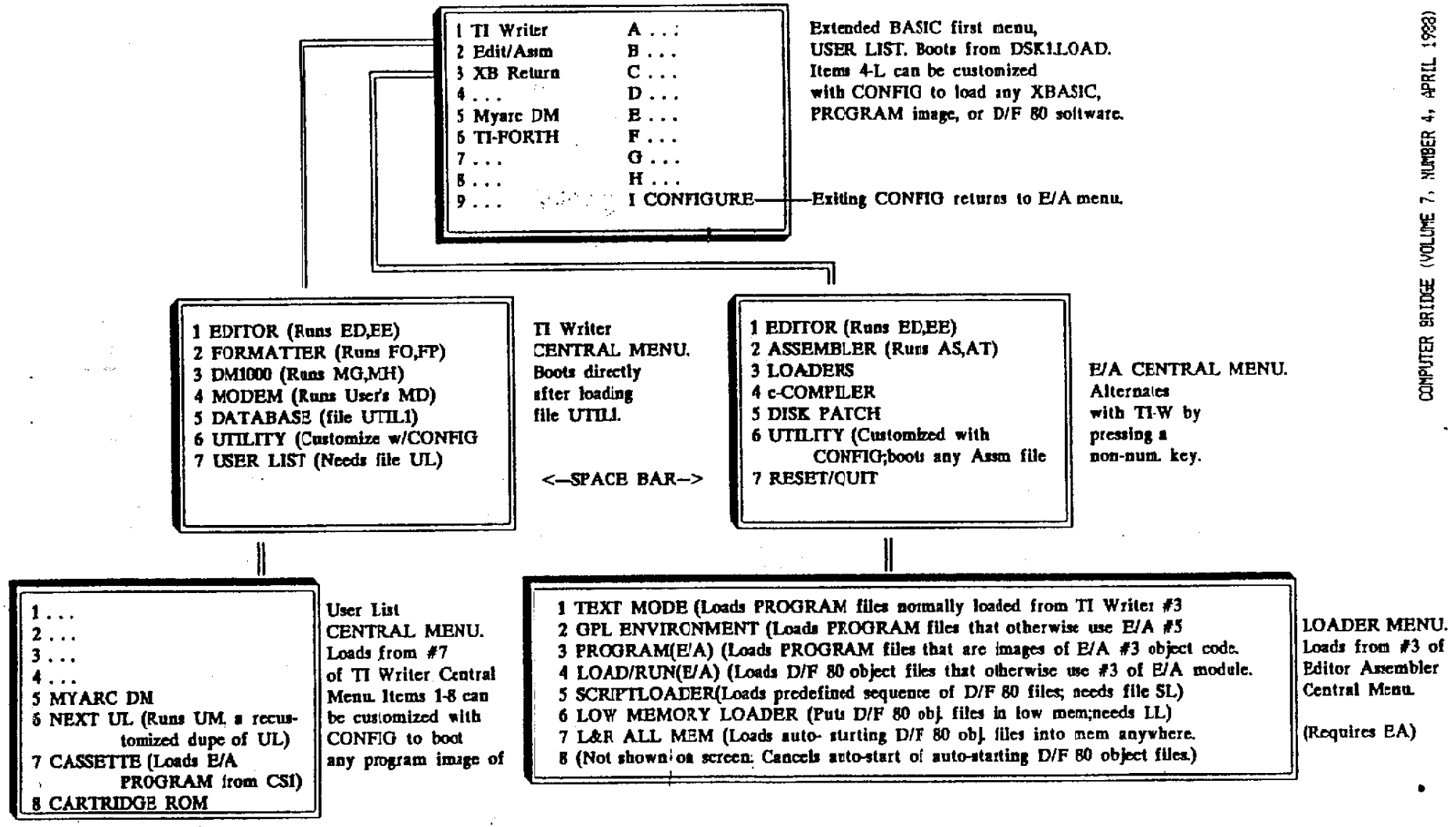
	ZZZ in 1st RECORD	AAA IN LAST RECORD	ZZZ/AAA IN MIDDLE
BUBBLE			
	199	295	242
	99	1275	950
SHAKER			
	202	204	201
	100	149	149
SWAP			
	246	246	243
	1274	1274	1274
SHUTTLE			
	148	140	148
	97	97	97
EASY			
	728	731	740
	342	345	347
QUICK			
	747	630	781
	686	638	759
RESORT			
	148	52	101
	98	98	98
SHELL			
	154	154	155
	270	271	272
WAZZIT?			
	198	198	199
	1275	1275	1275
INSERT			
	148	148	149
	49	49	49

OBSERVATIONS: The simple sorting routines may be better than the more complex and faster ones, for resorting a presorted file after a few changes have been made, or for adding a few records to an existing presorted file.

(THIS IS THE END OF THE SERIES DEALING WITH ANALYSIS OF SORTING ROUTINES. -editor-)

FUNNELWEB 4.0 MENU FLOW CHART

FCTN-7 (AID) from any of these menus gives a disk directory.


1 TI Writer
2 Edit/Assm
3 XB Return
4 . . .
5 Myarc DM
6 TI-FORTH
7 . . .
8 . . .
9 . . .
A . . .
B . . .
C . . .
D . . .
E . . .
F . . .
G . . .
H . . .
I CONFIGURE
Extended BASIC first menu, USER LIST. Boots from DSK1.LOAD. Items 4-L can be customized with CONFIG to load any XBASIC, PROGRAM image, or D/F 80 software.
Exiting CONFIG returns to E/A menu.
1 EDITOR (Runs ED,EE)
2 FORMATTER (Runs FO,FP)
3 DM1000 (Runs MG,MH)
4 MODEM (Runs User's MD)
5 DATABASE (file UTIL1)
6 UTILITY (Customize w/CONFIG
7 USER LIST (Needs file UL)
TI Writer CENTRAL MENU. Boots directly after loading file UTIL1.
<—SPACE BAR—>
1 EDITOR (Runs ED,EE)
2 ASSEMBLER (Runs AS,AT)
3 LOADERS
4 c-COMPILER
5 DISK PATCH
6 UTILITY (Customized with CONFIG;boots any Assm file
7 RESET/QUIT
E/A CENTRAL MENU. Alternates with TI-W by pressing a non-num. key.
1 . . .
2 . . .
3 . . .
4 . . .
5 MYARC DM
6 NEXT UL (Runs UM, a recustomized dupe of UL)
7 CASSETTE (Loads E/A PROGRAM from CS1)
8 CARTRIDGE ROM
User List CENTRAL MENU. Loads from #7 of TI Writer Central Menu. Items 1-8 can be customized with CONFIG to boot any program image of
1 TEXT MODE (Loads PROGRAM files normally loaded from TI Writer #3
2 GPL ENVIRONMENT (Loads PROGRAM files that otherwise use E/A #5
3 PROGRAM(E/A) (Loads PROGRAM files that are images of E/A #3 object code.
4 LOAD/RUN(E/A) (Loads D/F 80 object files that otherwise use #3 of E/A module.
5 SCRIPTLOADER(Loads predefined sequence of D/F 80 files; needs file SL)
6 LOW MEMORY LOADER (Puts D/F 80 obj. files in low mem;needs LL)
7 L&R ALL MEM (Loads auto- starting D/F 80 obj. files into mem anywhere.
8 (Not shown on screen: Cancels auto-start of auto-starting D/F 80 object files.)
LOADER MENU. Loads from #3 of Editor Assembler Central Menu.
(Requires EA)

Reformatted by Robert Simms from versions printed in the Lima, Ohio Users Group newsletter.

COMPUTER BRIDGE (VOLUME 7, NUMBER 4, APRIL 1988)

FUNNELWEB 4.0 CONFIGURE PROGRAM FLOW CHART

1 Continue Normally *(Use the first time CONFIG is run)*
2 Redo User Lists *(Use to alter and/or add to already configured XB and/or central menu User Lists)*
3 Redo Configuration
4 Back to FWb Vn 4.0

Boot Drive Tracking On? (Y/N)
Y-FWb expects all its own files and the user files accessed directly from central menus to be in the boot drive or in DSK1.
N-Overrides boot drive tracking, allows specifying certain drives for TIW and E/A central menu files. Esp. useful with RAMdisks or multiple floppy drives.

Fixed drive # (TIW) DSK_
(Enter single digit drive number)
Fixed drive # (Ed/As) DSK_
(Enter single digit drive number. This This is the SECONDARY DRIVE number.)

Utility drive default? DSK?.UTIL1
(Enter single digit number for default to be displayed when LF/SF is first used in the Editor.)

Editor printer device *(PIO, etc.)*
Format printer device *(PIO.LF, .CR, etc.)*
Workfile Name Default *(If you enter something here, the name will appear after DSKx. the first time LF or SF is used in Editor after booting FWb. If no name is entered, you may exit FWb, reboot later and usually find the last file name still in the mailbox.)*

Edit Utility Choice #6
Edit Opt #6 filename *(Type in screen display name of an assembly language PROG user file you want to be able to boot from a central menu. Then enter a two character name for this file. Repeat process for the other central menu. These files must be on the same disk as the other files accessed by the displayed TIW or Ed/Assm menu.)*

Color Choice Selection *(Colors and their hex values are displayed. Ten foreground/background combinations are shown with the first being the combination showing at powerup. The other 9 can be cycled through by pressing zero from most FWb menus. Edit the color combinations or press ENTER to cycle through all ten.*

1 Cycle Colors *(Press 1 repeatedly to see them)*
2 Select Again *(Re-edit colors just entered)*
3 Original Set *(Re-select colors on orig. FWb disk)*
4 Next Screen *(to continue)*

(Options): Do you wish to edit the central menu screen UL before saving UTIL1? (Y/N) No
Y-You get a display of screen and file data for the first 8 items in the central menu User List. Press N(ext) and B(ack) to cycle through these 8 items. Press E(dit) to enter or change data of the displayed UL item. Editing screen prompts are identical to those shown below for XB User List editing beginning with Edit file name for loader. When finished with all editing, press S(ave).

Save Data to DSKx.UL *(Enter a drive number. If CONFIGuring more than one User List, change UL to UM, UN, etc. If you wish to CONFIGure more user lists, answer Y to option to again edit central menu UL. Otherwise, enter N to continue.*

Do you wish to edit the XBLOAD program ULlist before saving UTIL1? (Y/N)
Yes: *No*
(Follow screen prompt and load LOAD. You then see the XB User first menu with cursor on choice 4.
Choices 4 through 1 must be cycled through before leaving XB UL configuring routine. Type in desired menu display for each item, then ENTER. Or, repeatedly press ENTER for defaults listed.
Not finished with Cycle_____Finished with cycle

1 XBasic Program (For XBasic user file)
2 Assembly Loaders *(For assembly user file)*
3 Return to XBasic *(Causes this XB UL item, when pressed, to return immediately to XBasic, as does UL item 3. After editing this item, you are returned to the XB first menu UL display to edit next UL item.)*
4 Leave Unaltered *(Returns to the XB first menu UL to edit the next UL item.*

1 Memory Image Program *(Assembly language file that lists as PROGRAM in a disk directory)*
2 Tagged Object Code *(A single D/F80 assembly file)*
3 Script Load File *(A sequence of D/F80 files)*

1 No special conditions *(Usually chosen)*
2 Load low memory first
3 Autostart - E/A LFMH
4 Intercept autostart

Select FWb File Name *(Press 1 or 2 for the correct name of the reboot file. FWb originally comes configured as UTIL1.)*
1 Util1
2 RELOAD

Save File to Drive #? *(Select a single digit and/or press ENTER)*
Press 1 to save configuration *(You may redo your configuration by pressing 2 or 3, or return to FWb with 4.)*
Configuration saved *(At this point, program returns to the first CONFIG menu at the top of the flow chart.)*

Revised by Robert Simms, 4/1/88

1 Text Mode (TIW) *(Usually loads from 3 of TIW module)*
2 GPL Environment *(Usual choice for E/A5 files)*
3 E/A Program file

Boot tracking off? (Y/N) *(Y-prevents the boot drive number from overwriting the drive number specified as part of the filename.)*
Secondary Disk? (Y/N) *(This is the drive specified near the beginning of CONFIG for the E/A central menu if boot tracking was turned off. If this number is different than the boot drive number and if you answer Y to this question then FWb will look for the user file in the secondary drive.)*
Provide reminder? (Y/N) *(If the user file is not on the same disk as the rest of your FWb files then answer Y. FWb will stop when the user file is selected from a User List and the message Insert Utility Disk in Drive x (the secondary drive) will be displayed.*

THE FOLLOWING PROGRAM WILL PRINT A BANNER FROM YOUR PRINTER. IT IS FROM MY OWN COLLECTION OF PROGRAMS. --editor--

```
Ø !A Public Domain Program -Not to be Sold!
1Ø @=1 :: +=2 :: DIM B$(8,8),C$(16) :: D$="          Banners" :: FOR A=[ TO 14 :: CALL COLOR(A,16,5):: NEXT A :: CALL SCREEN(5):: DISPLAY AT(+,+)ERASE ALL:D$
12 A$="RS232/2.LF"
2Ø DISPLAY AT(15,@):" PRESS ANY KEY TO CONTINUE" :: CALL KEY([,B,C):: IF C=[ THEN 2Ø
3Ø DISPLAY AT(+,+)ERASE ALL:D$: :"Press:": :"1) TI's Standard Characters": :"2) LARGE (Full height)":" Redefined Characters": :"3) SHORTER -With Descenders":">>>2"
4Ø ACCEPT AT(12,4)VALIDATE("123")SIZE(-@)BEEP:A :: DISPLAY AT(13,@):"Enter Printer Device Name-": :A$ :: ACCEPT AT(15,@)BEEP SIZE(-28):A$
5Ø DISPLAY AT(17,@):"Enter ASCII Foreground":"Character to be printed-":">>>88" :: ACCEPT AT(19,4)BEEP SIZE(-3)VALIDATE(DIGIT):C
6Ø DISPLAY AT(21,@):"Enter ASCII Background":"Character to be printed-":">>>32" :: ACCEPT AT(23,4)BEEP SIZE(-3)VALIDATE(DIGIT):B
7Ø CALL CHAR(129,"ØØ4ØBE12121212ØØ3C42A581A599423CØØ1Ø7C1Ø1Ø1Ø1")
8Ø DATA ØØØØ,ØØØ1,ØØ1Ø,ØØ11,Ø1ØØ,Ø1Ø1,Ø11Ø,Ø111,1ØØØ,1ØØ1,1Ø1Ø,1Ø11,11ØØ,1101,1110,1111
9Ø E$="" :: D=[ :: FOR E=@ TO 16 :: READ C$(E):: NEXT E :: IF A=@ THEN 11Ø
1ØØ DISPLAY AT(9,+)ERASE ALL:D$: :" Stand by.....Initializing" :: IF A=+ THEN GOSUB 47Ø ELSE GOSUB 59Ø
11Ø F$="H" :: F,G=9 :: H=@ :: G$=" Characters"
12Ø DISPLAY AT(3,@)ERASE ALL:"Horizontal or Vertical": :"Banner? H or V >>>"&F$
13Ø ACCEPT AT(5,19)BEEP VALIDATE("HVhv")SIZE(-@):F$ :: IF F$="" THEN 13Ø
14Ø DISPLAY AT(7,@):"Width of";G$;"?": :"1-9 >>>"&STR$(F):: ACCEPT AT(9,8)BEEP VALIDATE("123456789")SIZE(-@):F :: DISPLAY AT(11,@):"Height of";G$;"?": :"1-9 >>>"&STR$(G)
15Ø ACCEPT AT(13,8)BEEP VALIDATE("123456789")SIZE(-@):G :: DISPLAY AT(+,+)ERASE ALL:D$: : :"Press for:": :"1) Normal";G$: :"2) Emphasized";G$: :"3) Condensed";G$: :">>>"&STR$(H)
16Ø ACCEPT AT(13,4)VALIDATE("123")BEEP SIZE(-@):H :: OPEN #@:A$
17Ø ON H GOTO 2ØØ,18Ø,19Ø
18Ø PRINT #@:CHR$(27)&"E";:: GOTO 2ØØ
19Ø PRINT #@:CHR$(15);
2ØØ PRINT #@:CHR$(27)&"Ø"&CHR$(27)&"A"&CHR$(7);:: DISPLAY AT(12,3)ERASE ALL:"Press:": :"CTRL ""A"" for  ": :"CTRL ""B"" for  ": :"CTRL ""C"" for  "
21Ø PRINT "Enter Banner text": :"(14Ø Char. max.)" :: LINPUT "":H$ :: PRINT :"Hold down any key to ABORT": :"Printing letter>>>": : :: FOR I=@ TO LEN(H$):: CALL CHARPAT(ASC(SEG$(H$,I,@)),I$)
22Ø D=[ :: FOR E=@ TO 16 STEP + :: J=POS("Ø123456789ABCDEF",SEG$(I$,E,@),@):: D=D+@ :: FOR K=@ TO 4 :: B$(D,K)=SEG$(C$(J),K,@):: NEXT K :: NEXT E :: D=[ :: CALL KEY([,L,M):: IF M=@ THEN 32Ø
23Ø FOR E=+ TO 16 STEP + :: J=POS("Ø123456789ABCDEF",SEG$(I$,E,@),@):: D=D+@ :: FOR K=@ TO 4 :: B$(D,K+4)=SEG$(C$(J),K,@):: NEXT K :: NEXT E :: CALL SOUND(5Ø,44Ø,[):: CALL KEY([,L,M):: IF M=@ THEN 32Ø
24Ø PRINT SEG$(H$,I,@);:: IF F$="V" OR F$="v" THEN 28Ø
25Ø J$="" :: FOR K=@ TO 8 :: FOR D=8 TO @ STEP -@ :: IF B$(D,K)="1" THEN J$=J$&RPT$(CHR$(C),F)ELSE J$=J$&RPT$(CHR$(B),F)
26Ø NEXT D :: CALL KEY([,L,M):: IF M=@ THEN 32Ø
27Ø FOR N=@ TO G :: PRINT #@:TAB(14);J$ :: NEXT N :: J$="" :: NEXT K :: GOTO 31Ø28Ø J$="" :: FOR D=@ TO 8 :: FOR K=@ TO 8 :: IF B$(D,K)="1" THEN J$=J$&RPT$(CHR$(C),F)ELSE J$=J$&RPT$(CHR$(B),F)
29Ø NEXT K :: CALL KEY([,L,M):: IF M=@ THEN 32Ø
3ØØ FOR N=@ TO G :: PRINT #@:TAB(4);J$ :: NEXT N :: J$="" :: NEXT D
31Ø NEXT I
32Ø PRINT #@:CHR$(18);CHR$(27);"2";CHR$(27);"F";CHR$(27);"N";:: CLOSE #@ :: DISPLAY AT(+,+)ERASE ALL:D$: : : :"Print another banner?": :"Y or N? >>>N" :: ACCEPT AT(8,12)VALIDATE("YNyn")SIZE(-@)BEEP:J$
33Ø IF J$="Y" OR J$="y" THEN 12Ø ELSE CALL CLEAR :: END
34Ø DATA 2Ø2Ø2Ø2Ø2ØØØ2Ø2,484848,ØØ2
```

```
47E24247E24,107E907C12FC1,C0C2040810204606,3048483030
4A443A,020408,04081010100804,2010080808081
02
350 DATA 004438EE3844,0000101070101,000000000030102,
000000007C,0000000000001818,0002040810204,3C42424242
423C,1030701010101007C
360 DATA 7C82040810204FE,7C82023C0202827C,060A122242F
E0202,FC8080FC02028027C,7C8080FC8282827C,FE020408102
0404,7C82827C8282827C
370 DATA 7C8282827E02027C,0018180000018180,0018180000
018081,0008102040201008,0000007E007E,0020100804081
02,3C42020408100001,0078849CA498807C
380 DATA 7C828282FE828282,FC42427C4242FC,7C828080808
0827C,FC42424242424FC,FE8080F8808080FE,FE8080F88080
808,7C8280809E82827C
390 DATA 8282828FE8282828,FE1010101010FE,02020202028
2827C,8890A0C0A0908884,8080808080808FE,82C6AA928282
8282,92C2A2928A862882
400 DATA FE828282828282FE,FC828282FC80808,7C828282829
A847A,FC828282FC888482,7C82807C02028277C,FE1010101010
101,8282828282827C,828244442828101
410 DATA 8282828292AAC682,82C628101028C682,828244281
010101,FF02040810204
0FF,1C1010101010101C,0040201008040
2,7010101010101007,10284482
420 DATA 0000000000000FF,402010000
03C420E12261A,4040407C42424276C,00003C4240404230,020
2023E4242423E,00003C42427C403C,1C2220702020202
430 DATA 00003C42423E027C,4040407C42424242,0010001010
10101,0020002020224230,4040485060504944,1010101010101
01,0000EC9292929292
440 DATA 00007C4242424242,00007E424242427E,00007C4242
7C404,00003C44443C0406,00007C4240404
450 DATA 00003C42300C423C,2020702020202021C,000042424
24242E,0000444428281010,0000424254A56642,0000422418182442,0042221
20E02023C
460 DATA 00007E040810207E
470 FOR A=33 TO 122 :: READ J$ :: CALL CHAR(A,J$):: NEXT A :: RETURN
480 DATA 1010101010001,282828,28287C287C2828,103C503814781,6464001020
4E4E,0020502054483
4,0004081,08102020201008,1008040404081
490 DATA 00105438541,0010107C101,0000000000010102,00
00007C,0000000000010,0404081020404,00384C54644438,0010
3010101038,003844
0C30407C
500 DATA 0038041804443
8,001828487C0808,007C4078044438,001C2078444438,0
07C4408102
02,00384438444438,003844438087,0000100000
1,0000100010102
510 DATA 08102040201008,00007C007C,2010080408102,3844
04081000
1,0038445
45C403C,0038447C444444,007844784444
78,0038444040443
8,0070484444487
520 DATA 007C407840407C,007C4078404
04,003844404C443C,0044447C444444,00
3810101010
38,001C080808483,00485060
504844,0040404040407C
530 DATA 00446C54544444,00446464544
C44,0038444444443
8,0078444478404,00
384444544834,0078444478484
4,003C403
8040478,007C101010101
540 DATA 0044444444443
8,0044442828101,0044445451542
8,0044281028444
4,00
44281010101,007C040810207C,3820202020203
8,4040201008040
4
550 DATA 3808080808083
8,1028441010101,0000000000007C,00201008,00003008
384834,0040407
8444478,0000384440443
8,0004043C444438,000038447C403C
560 DATA 0008101038101,00003844443C0438,004040508644
444,0010003010103
8,
0008001808083483,0040405060504
8,0010
1010101010,0000205454544
4
570 DATA 0000586444444
4,0000384444443
8,0000784444784
04,0000384444
3C0404,0000586440404,0000384038047
8,0010
3810101008,0000484848483
4
580 DATA 000044444428
1,0000445454542
8,0000442810284
4,0000444424
1C0438,
00007C0810207C,0810102010100
8,10101
0001010
1,2010100810102,0000205408
590 RESTORE 480 :: FOR A=33 TO 126 :: READ J$ :: CALL CHAR(A,J$):: NEXT A :: RETURN
```

////////////////////////////////////

HERE ARE A FEW BBS's NUMBERS
(these have not be check out yet)

ANT FARM BBS	1-602-889-6930
HOLLOW TREE	1-616-454-5131
EXCALIBUR	1-904-751-3970
99ER BBS	1-214-272-2786
WORD BBS	781-711
WORDPLAY	1-503-233-6804
VAST BBS	1-602-437-4335
WIZ/TIB	1-717-657-4992
" "	1-717-657-4997
CFC	1-919-563-2646
COMPULINK OPUS	1-805-494-3350
DAKOTA INFONET	1-605-336-3578
N.C. CONTROL OPUS	1-919-852-8460
OREGON OPUS	1-503-692-7204

(the last 4 are on a network)

HANDY ERROR CODES LIST

First number	Command
Ø	OPEN
1	CLOSE
2	INPUT
3	PRINT
4	RESTORE
5	OLD
6	SAVE
7	DELETE
9	END OF FILE

Second Number	Error
Ø	The disk drive specified could not be found.
1	Device or file write protected. Remove protection.
2	Bad open attribute. Open options were illegal.
3	Illegal operation like asking input from printer.
4	Out of space on disk or trying to open more files than allowed.
5	Attempt to read past end of file.
6	Device error, disk not initialized or is damaged. Disk drive unit is not working. Power disconnected while writing to disk.
7	File error, file or diskette doesn't exist or trying to read a basic file as if data.

(the previous material is being reprinted for those who are new to our group. I know this is something that most would like to have handy. So here it is!
-editor-

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NORTH KANSAS CITY, MISSOURI 64116

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in the Dept. Issue

BLOODBANK
BANNER PROGRAM
ERROR LIST
BBS NUMBERS
TI CARES
ANALYSIS PART 3

AJJMAMFJ88
DALLAS TI HOME
Computer Group
P. O. Box 29863
Dallas TX 75229

THE SOFTWARE SEARCH

```
*****************************
*JHXYEYXRTPEMBJFHDNISBVBPZC*
*EPPYDPVYUNYRIIXOAZRNZVZELC*
*SCPQENWYVLDVCWCLUQWVJTVIVL*
*UOKLEBFFZMCPZEPJBWAIPAFQTQ*
*SLOZTUXZHNLDTIBYVCJZYYMVCY*
*LWUPEBITVTEITBVHOAVCBSQCQK*
*OQYQLNZXXWWLLXHSHLLCIXSMAH*
*VNFWCZWYBRUALUBXQYVNZNPSIV*
*EDSOOZTPIMRUFVVKHMLOHCTPCK*
*SGWEQDTTGDRGAGTTSREKGUHOFS*
*YJAFDFEZIJRAZSMZRBCLUMIYFS*
*OLFDKROFBCJTITKNCJQWKYFJLC*
*UKZNEZRWACNLBCATLIBIPBRYYH*
*XIXSWQCABSTKRKEEIUJYYPCADR*
*IIEYRZUBPATDHRFXFGHCZPQWBF*
*KPBJOFQLEJUTMQZWWFVMNBZKKU*
*MJUCYXFNBYEVECMSVRWPZVMPUN*
*WIEALTDLJJHYERVADNTYGJUNMN*
*XZWAIVRTLQJZXJMSPDIKKDJPWE*
*PHSRTBIMRQGDATUSNTUONMXJSL*
*URVAUAEPOPQIENEJQKVTJJDKJW*
*LXZXKWSPFAPRBASEWZPOJHTRAE*
*LNEPSSJPCCIYXFNFEVUYPTUHBB*
*SUDWIVWILCWNUFHJQGXMOCTACT*
*RKMFDAZLCAROKRWZRLWAQYXMQE*
*****************************
```

CATCOM
CATLIB
DISKUTILY
FASTTERM
FUNNELWEB
MULTIPLAN
NEATLIST
PRBASE
TELCO
TIWRITER